

# Converting Colors

XYZ(18.8601, 22.3417, 41.9416)

Have a look what the booklet for  
XYZ(18.8601, 22.3417, 41.9416)  
contains.

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# Color

**XYZ(18.8231, 22.3462,  
41.8492)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	448AAB
RGB	68, 138, 171
RGB Percent	27%, 54%, 67%
CMY	0.7333, 0.4588, 0.3294
CMYK	0.60, 0.19, 0.00, 0.33
HSL	199°, 43%, 47%
HSV	199°, 60%, 67%
XYZ	18.8231, 22.3462, 41.8492
YIQ	120.8320, -52.3130, -4.5770

# Conversions

## Conversions Part 2

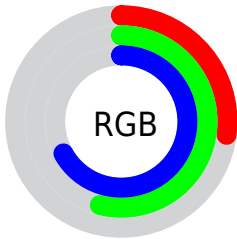
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	68, 110, 171
Decimal	4491947
CIE Lab	54.39, -11.97, -24.05
CIE LCh	54, 26.863, 243.533
Yxy	22.3462, 0.2267, 0.2692
Android (android.graphics.Color)	4282682027 (0xFF448AAB)
YUV	120.8320, 24.7328, -46.3337
Hunter-Lab	47.2718, -11.6488, -19.3986

# Details

The XYZ color **18.8231, 22.3462, 41.8492** is a dark color, and the websafe version is hex **3399CC**. A complement of this color would be **22.4925, 18.3837, 7.8327**, and the grayscale version is **18.0554, 18.9957, 20.6863**.

A 20% lighter version of the original color is **40.8157, 47.1126, 78.8939**, and **6.8195, 8.3114, 18.6976** is the 20% darker color. If you saturate the color by 10%, you get **17.0337, 20.2865, 41.5464**, and if you desaturate by 10%, it is **21.0015, 24.6662, 42.1826**.

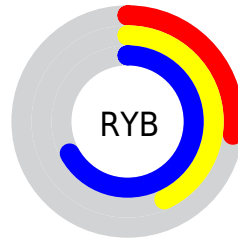
# Distribution



Red (27%)

Green (54%)

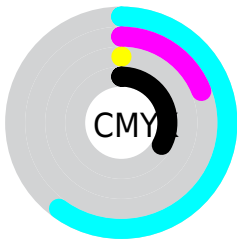
Blue (67%)



Red (27%)

Yellow (43%)

Blue (67%)

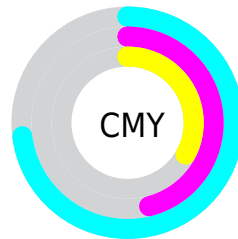


Cyan (60%)

Magenta (19%)

Yellow (0%)

Black (33%)



Cyan (73%)

Magenta (46%)

Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.8231, 22.3462, 41.8492 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 18.8231, 22.3462, 41.8492 by changing the saturation by 10% instead.



■ 18.8231, 22.3462,  
41.8492

■ 18.8231, 22.3462,  
41.8492

238.4273,  
264.3489, 369.6386

■ 11.6458, 14.1115,  
28.6585

■ 40.9542, 47.3175,  
79.2390

■ 6.5734, 8.1983,  
18.5793

■ 56.6386, 64.8229,  
104.2752

■ 3.2407, 4.2221,  
11.1930

■ 75.8894, 86.1874,  
134.0969

■ 1.2823, 1.7985,  
6.0810

■ 99.0721, 111.7953,  
169.1229

■ 0.1699, 0.4863,  
2.8248

■ 126.5518,  
142.0310, 209.7714

■ 0.0000, 0.0000,  
1.0059

158.6940,

■ 0.0000, 0.0000,

177.2789, 256.4612

0.0000

195.8641,  
217.9234, 309.6108

■ 18.8231, 22.3462,  
41.8492

■ 18.8231, 22.3462,  
41.8492

■ 17.0337, 20.2865,  
41.5464

■ 21.0015, 24.6662,  
42.1826

■ 15.5992, 18.4674,  
41.2709

■ 23.5947, 27.2592,  
42.5464

■ 14.4830, 16.8695,  
41.0213

■ 26.6287, 30.1401,  
42.9426

■ 13.6208, 15.4804,  
40.7986

■ 30.1266, 33.3215,  
43.3723

■ 34.1100, 36.8152,  
43.8367

■ 38.5989, 40.6325,  
44.3369

■ 43.6122, 44.7838,  
44.8740

■ 49.1678, 49.2790,  
45.4488

■ 55.2827, 54.1277,  
46.0624

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



16.8755, 22.3462, 34.3921



18.8231, 22.3462, 41.8492



21.5890, 22.3462, 44.2815

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



18.8231, 22.3462, 41.8492



27.3822, 22.3462, 23.3490



18.2729, 22.3462, 13.1958

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



18.8231, 22.3462, 41.8492



22.4925, 18.3837, 7.8327

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



20.8936, 22.3462, 11.5057



18.8231, 22.3462, 41.8492



26.2974, 22.3462, 16.4529

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



18.8231, 22.3462, 41.8492



26.7003, 22.3462, 32.2653



23.8541, 22.3462, 12.5446



16.5790, 22.3462, 17.8177



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



18.8231, 22.3462, 41.8492



23.5724, 22.3462, 42.3529



23.8541, 22.3462, 12.5446



19.0656, 22.3462, 12.3213

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



18.8238, 22.3470, 41.8497



55.2507, 60.8292, 77.8311



19.2778, 31.2874, 17.2378



11.8943, 13.1849, 17.3057



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



18.8238, 22.3470, 41.8497



29.6600, 35.2963, 74.2515



13.1342, 10.9678, 39.9532



8.0167, 8.6328, 10.1965



10.3170, 11.7679, 30.7722



0.3335, 0.4204, 0.8716



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



23.4498, 14.6280, 25.6331



39.1269, 21.8918, 40.5283



29.0858, 31.5704, 10.0305



8.2262, 8.1037, 9.5021



15.0712, 7.4910, 13.2863



0.4427, 0.2178, 0.4933



# Previews

## White Background



This preview shows how the XYZ color 18.8231, 22.3462, 41.8492 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 18.8231, 22.3462, 41.8492 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

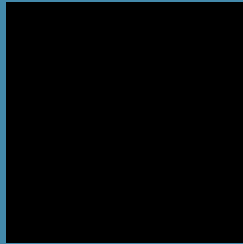
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 18.8231, 22.3462, 41.8492**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.8231, 22.3462, 41.8492.



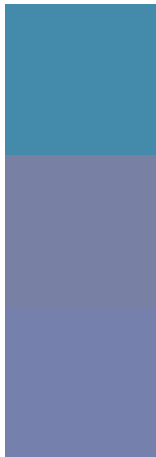
This preview shows how white text looks on a background with the XYZ color 18.8231, 22.3462,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

18.8231, 22.3462, 41.8492

### Protanopia

22.1657, 22.1117, 38.2217

### Deuteranopia

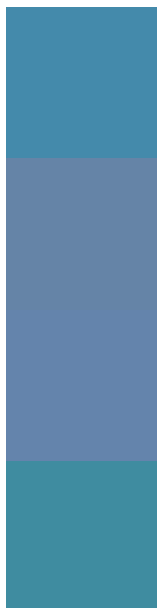
22.7332, 22.3070, 42.6427



## Tritanopia

17.1381, 22.3103, 33.5400

# Trichromacy



## Original Color

18.8231, 22.3462, 41.8492

## Protanomaly

20.5931, 22.0593, 39.7317

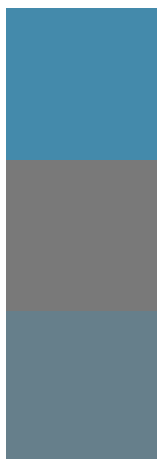
## Deuteranomaly

20.9532, 22.1904, 42.2086

## Tritanomaly

17.7731, 22.3510, 36.6351

# Monochromacy



## Original Color

18.8231, 22.3462, 41.8492

## Achromatopsia

18.1737, 19.1202, 20.8219

## Achromatomaly

17.7291, 19.8676, 27.3265

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.8231, 22.3462, 41.8492 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(68, 138, 171)` looks like.

```
.text, #text, p{  
    color:rgb(68, 138, 171)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(68, 138, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 138, 171) }
```

## Border

The CSS property to change the border of an element to XYZ 18.8231, 22.3462, 41.8492 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(68, 138, 171) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(68, 138, 171) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(68, 138, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 138, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 138, 171);  
box-shadow:4px 4px 4px 4px rgb(68, 138,  
171) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.8231, 22.3462, 41.8492 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 138, 171) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(68, 138,  
171) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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